

Claims

1.
5 A Bag In Box (BIB) container [package] (10)
- for flowable materials,
including liquid, solid powders or particles -
with an inner (contents) bag liner (12)
locatable within an outer box carton (11)
10 has a neck piece (14),
between a bag neck (13) and carton aperture (24).
2.
15 A container package, as in Claim 1,
with a carton lid flap
incorporating cuts, creases or folds
to allow folding as an inset ledge or recessed shelf,
with a cut-out or aperture for a bag neck,
and a neck piece configured as a shallow tray,
20 to sit within the shelf recess,
to accommodate a protruding bag neck
within a uniform, say rectangular, overall carton form.
3.
25 A container package, as in either preceding claim,
with a retractable (fold-out) pourer spout.
4.
30 A container package, as in any preceding claim,
with a retractable (fold-out) handle.
5.
35 A container package, as in any preceding claim,
with a lockable closure.
6.
A container package, as in any preceding claim,
with discrete neck piece insert.
7.
40 A container package, as in any preceding claim,
with neck piece (part) integrated with box carton.
8.
45 A container package, as in any preceding claim,
with neck piece (part) integrated with bag liner insert.

9.

A container package, as in any preceding claim,
with a frangible tamper-evident seal,
about a removable closure.

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10.

A container package, as in any preceding claim,
with a box carton of moisture resistant material,
such as a sealed or coated board,
or synthetic plastics.

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11.

A container package, as in any preceding claim,
with a reinforced box carton material,
such as laminated, corrugated or fibre stranded.

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12.

A container package,
substantially as hereinbefore described,
with reference to, and as shown in,
the accompanying drawings.

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13.

A BIB container package,
- for liquid or flowable material (contents) -
comprising a bag inner liner
and a box carton outer (shell);
with a bag (neck) location and support element,
configured as any one, or a combination of:

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- discrete insert,
- element integral with the bag,
or some part of the bag,
such as the bag neck or neck rim,
- element integrated with the carton,
or some part of the carton,
such as an end flap;

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to create a (shallow) recess for a protruding bag neck.

14.

A pre-formed, neck piece for a container,
as claimed in any preceding claims.

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15.

A container comprising
an outer box or carton
with an edge recessed panel
and an internal bag liner
located and retained within the carton
by a neck support collar
such that a protruding bag neck
is inset within the recess.

16.

A BIB carton,
with box or carton outer wrap, sleeve or case
and bag inner liner element
mutually juxtaposed and entrained
preparatory to bag contents fill.

17.

A BIB carton of Claim 16
with a pre-fabricated handle.

18.

A BIB carton of Claim 16
with integrated neck collar and handle moulding.

19.

A BIB carton of Claim 16
with integral moulded collar and bag neck.

20.

A location and/or retention element
for juxtaposition or interposition between
bag liner and outer box or carton.

21.

A BIB carton
with a location and/or retention element of Claim 20
captive to a bag neck and entrained by a neck rim.

22.

A BIB assembly of juxtaposed
bag inner and box outer elements
mutually entrained by an intermediate element.